



US -09 -787 - 611 GCCTCATGTTCTCTGAGAGATGCGAATGAGACTGTCCCTGAGGTTGTTGCCACATCAGG  
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US -09 -787 - 389 GCCTCATGTTCTCTGAGAGATGCGAATGAGACTGTCCCTGAGGTTGTTGCCACATCAGG  
consensus GCCTCATGTTCTCTGAGAGATGCGAATGAGACTGTCCCTGAGGTTGTTGCCACATCAGG  
US -09 -787 - 450 TTATGCTTGTGCTGACATTTTATAGATGCTGCTTAAATTTGACTGATTTAATTAATTA  
US -09 -787 - 672 TTATGCTTGTGCTGACATTTTATAGATGCTGCTTAAATTTGACTGATTTAATTAATTA  
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US -09 -787 - 450 TTATGCTTGTGCTGACATTTTATAGATGCTGCTTAAATTTGACTGATTTAATTAATTA  
consensus TTATGCTTGTGCTGACATTTTATAGATGCTGCTTAAATTTGACTGATTTAATTAATTA  
US -09 -787 - 511 TACAGTTTGAATGTTGTCCTCAATAAATCTGCTGAGGCCGAGAGAGATGATCAGTAAATA  
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US -09 -787 - 572 GCAGCGAATCTGTTGAATGTAATGTTCTGAAAACTGGAAGGTGAAGCATGTGACATTTCC  
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US -09 -787 - 794 GCAGCGAATCTGTTGAATGTAATGTTCTGAAAACTGGAAGGTGAAGCATGTGACATTTCC  
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US -09 -787 - 633 TCACGTGACAGACAACCTGTGTTTCTCATCGAGGCATCTGCAATTCAAGTATGTCAGA  
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US -09 -787 - 694 GGATGCTCTGCTTCTGACACTGCGAGGGGCTCTGAGATGTTCAGTTCTGTACAGCTAACCC  
US -09 -787 - 916 GGATGCTCTGCTTCTGACACTGCGAGGGGCTCTGAGATGTTCAGTTCTGTACAGCTAACCC  
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US -09 -787 - 977 AGTCATTTTGAATGTCGAGAGAAATTTCTAACTTAAGCTCCCGAGAGCATCTCATTAAGC  
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US -09 -787 - 816 TGTGTCATGAGAAACATTAATGTGGGTTGTGGAGATATATGTTCAACCACTCAGATTAAT  
US -09 -787 - 1038 TGTGTCATGAGAAACATTAATGTGGGTTGTGGAGATATATGTTCAACCACTCAGATTAAT  
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US -09 -787 - 816 TGTGTCATGAGAAACATTAATGTGGGTTGTGGAGATATATGTTCAACCACTCAGATTAAT  
consensus TGTGTCATGAGAAACATTAATGTGGGTTGTGGAGATATATGTTCAACCACTCAGATTAAT  
US -09 -787 - 877 AACATGTTCTACCGTATGACCTTGCTTCTAGGAGATGGCTTCCACTAAACGGTCTGTGA  
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US -09 -787 - 938 ACAATGTTGTTAGATATGTCATCTTTGGCATTTAAACAAGATTAATTAATTAATGTA  
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US -09 -787 - 999 TGAAGAAAAATTGAT -CACTGGGAATGTGACCAATGAGTTGAGAGATTTTACATTCAT  
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US -09 -787 - 1060 AATGATCATGGGTTGTTGTAACCCCTTAAGCAAAAGAGCAGTATGACGTGGGGCACT  
US -09 -787 - 1282 AATGATCATGGGTTGTTGTAACCCCTTAAGCAAAAGAGCAGTATGACGTGGGGCACT  
US -09 -787 - 1282 AATGATCATGGGTTGTTGTAACCCCTTAAGCAAAAGAGCAGTATGACGTGGGGCACT  
US -09 -787 - 1060 AATGATCATGGGTTGTTGTAACCCCTTAAGCAAAAGAGCAGTATGACGTGGGGCACT  
consensus AATGATCATGGGTTGTTGTAACCCCTTAAGCAAAAGAGCAGTATGACGTGGGGCACT  
US -09 -787 - 1121 CTGCAACAATTTGTAACACTGAGAAATGSCCGAGTGTATGCTGGTCAATCTTTGGTCACTG  
US -09 -787 - 1343 CTGCAACAATTTGTAACACTGAGAAATGSCCGAGTGTATGCTGGTCAATCTTTGGTCACTG  
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US -09 -787 - 1121 CTGCAACAATTTGTAACACTGAGAAATGSCCGAGTGTATGCTGGTCAATCTTTGGTCACTG  
consensus CTGCAACAATTTGTAACACTGAGAAATGSCCGAGTGTATGCTGGTCAATCTTTGGTCACTG  
US -09 -787 - 1182 CCTCTCTATGATATATATAGCAATGTGAGAGAAATATGATTTGATTAAGACATGAGAGT  
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US -09 -787 - 1404 CCTCTCTATGATATATATAGCAATGTGAGAGAAATATGATTTGATTAAGACATGAGAGT  
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consensus CAGCTGCTCAGAAAGGCCAGATCTCCATTTTAAAGTATGAGATTGCCCCCAAGATAACCC-

US -09-787- 2035 ATGTACTACTGTAAACAAGAACCCAGCTGCAGAGAGCTGTGCTCTGACACAGAACTGCCAGT  
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US -09-787- 2257 ATGTACTACTGTAAACAAGAACCCAGCTGCAGAGAGCTGTGCTCTGACACAGAACTGCCAGT  
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US -09-787- 2257 ATGTACTACTGTAAACAAGAACCCAGCTGCAGAGAGCTGTGCTCTGACACAGAACTGCCAGT  
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US -09-787- 2035 ATGTACTACTGTAAACAAGAACCCAGCTGCAGAGAGCTGTGCTCTGACACAGAACTGCCAGT  
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US -09-787- 2096 GGGAGCCCCGGAAATCAGAGTGCATTGCCCTGCCGAAATATCTGTGGCATTTGGCTGGCA  
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US -09-787- 2318 GGGAGCCCCGGAAATCAGAGTGCATTGCCCTGCCGAAATATCTGTGGCATTTGGCTGGCA  
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US -09-787- 2318 GGGAGCCCCGGAAATCAGAGTGCATTGCCCTGCCGAAATATCTGTGGCATTTGGCTGGCA  
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US -09-787- 2096 GGGAGCCCCGGAAATCAGAGTGCATTGCCCTGCCGAAATATCTGTGGCATTTGGCTGGCA  
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consensus GGGAGCCCCGGAAATCAGAGTGCATTGCCCTGCCGAAATATCTGTGGCATTTGGCTGGCA

US -09-787- 2157 TTGTGTTGGAACCTCATGTTTGAATAATTACTACTGCGCAAGAGAAATTATGACAAATGCTAAA  
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US -09-787- 2379 TTGTGTTGGAACCTCATGTTTGAATAATTACTACTGCGCAAGAGAAATTATGACAAATGCTAAA  
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US -09-787- 2379 TTGTGTTGGAACCTCATGTTTGAATAATTACTACTGCGCAAGAGAAATTATGACAAATGCTAAA  
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US -09-787- 2157 TTGTGTTGGAACCTCATGTTTGAATAATTACTACTGCGCAAGAGAAATTATGACAAATGCTAAA  
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US -09-787- 2218 TTGTCTGTAGGAACAACAATGCCCTTTTGGCTTCTCTTACAACCAGAAAGAGTAGAAT  
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US -09-787- 2440 TTGTCTGTAGGAACAACAATGCCCTTTTGGCTTCTCTTACAACCAGAAAGAGTAGAAT  
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US -09-787- 2218 TTGTCTGTAGGAACAACAATGCCCTTTTGGCTTCTCTTACAACCAGAAAGAGTAGAAT  
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US -09-787- 2279 TTGTCTGTAGGAACAACAATGCCCTTTTGGCTTCTCTTACAACCAGAAAGAGTAGAAT  
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US -09-787- 2501 TTGTCTGTAGGAACAACAATGCCCTTTTGGCTTCTCTTACAACCAGAAAGAGTAGAAT  
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US -09-787- 2501 TTGTCTGTAGGAACAACAATGCCCTTTTGGCTTCTCTTACAACCAGAAAGAGTAGAAT  
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US -09-787- 2279 TTGTCTGTAGGAACAACAATGCCCTTTTGGCTTCTCTTACAACCAGAAAGAGTAGAAT  
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US -09-787- 2340 CCGATGGGTGGGCTTTCGGAAGATCAATGTGTCTTACTGTGCTGTGGAAAGATATGTCCCA  
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US -09-787- 2562 CCGATGGGTGGGCTTTCGGAAGATCAATGTGTCTTACTGTGCTGTGGAAAGATATGTCCCA  
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US -09-787- 2562 CCGATGGGTGGGCTTTCGGAAGATCAATGTGTCTTACTGTGCTGTGGAAAGATATGTCCCA  
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US -09-787- 2340 CCGATGGGTGGGCTTTCGGAAGATCAATGTGTCTTACTGTGCTGTGGAAAGATATGTCCCA  
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consensus CCGATGGGTGGGCTTTCGGAAGATCAATGTGTCTTACTGTGCTGTGGAAAGATATGTCCCA

US -09-787- 2401 TTTAACAATAGTTTACTACAGTGGATGCCGTGAGAGCCAGATGATGTGATTTCTGTGAA  
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US -09-787- 2623 TTTAACAATAGTTTACTACAGTGGATGCCGTGAGAGCCAGATGATGTGATTTCTGTGAA  
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US -09-787- 2623 TTTAACAATAGTTTACTACAGTGGATGCCGTGAGAGCCAGATGATGTGATTTCTGTGAA  
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US -09-787- 2401 TTTAACAATAGTTTACTACAGTGGATGCCGTGAGAGCCAGATGATGTGATTTCTGTGAA  
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consensus TTTAACAATAGTTTACTACAGTGGATGCCGTGAGAGCCAGATGATGTGATTTCTGTGAA

US -09-787- 2462 TTTTATCAGAACCCAGTACTCGGGGACTGGAAGGCTGCAACTGCATCAACCCACTCAATGG  
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US -09-787- 2684 TTTTATCAGAACCCAGTACTCGGGGACTGGAAGGCTGCAACTGCATCAACCCACTCAATGG  
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US -09-787- 2684 TTTTATCAGAACCCAGTACTCGGGGACTGGAAGGCTGCAACTGCATCAACCCACTCAATGG  
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US -09-787- 2462 TTTTATCAGAACCCAGTACTCGGGGACTGGAAGGCTGCAACTGCATCAACCCACTCAATGG  
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US -09-787- 2523 TAGTGTCTGTGAAGGCTTGCAAAACCAACAGTGTCTAAGACAGTGCAGACACCATGTGCCTTG  
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US -09-787- 2745 TAGTGTCTGTGAAGGCTTGCAAAACCAACAGTGTCTAAGACAGTGCAGACACCATGTGCCTTG  
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US -09-787- 2745 TAGTGTCTGTGAAGGCTTGCAAAACCAACAGTGTCTAAGACAGTGCAGACACCATGTGCCTTG  
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US -09-787- 2523 TAGTGTCTGTGAAGGCTTGCAAAACCAACAGTGTCTAAGACAGTGCAGACACCATGTGCCTTG  
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US -09-787- 2584 AGACAGCATGTGGAGATTGGACACAGGCGGACGCTCTGAGTGCATGTGTGTGAGCAACATGA  
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US -09-787- 2806 AGACAGCATGTGGAGATTGGACACAGGCGGACGCTCTGAGTGCATGTGTGTGAGCAACATGA  
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US -09-787- 2584 AGACAGCATGTGGAGATTGGACACAGGCGGACGCTCTGAGTGCATGTGTGTGAGCAACATGA  
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consensus AGACAGCATGTGGAGATTGGACACAGGCGGACGCTCTGAGTGCATGTGTGTGAGCAACATGA

US -09-787- 2645 AGCAGTGTGGAGCTCCAAATGCTATGTGGCTCTCTTCCCTTTTGGCCAGTATGGAATG  
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US -09-787- 2867 AGCAGTGTGGAGCTCCAAATGCTATGTGGCTCTCTTCCCTTTTGGCCAGTATGGAATG  
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US -09-787- 2867 AGCAGTGTGGAGCTCCAAATGCTATGTGGCTCTCTTCCCTTTTGGCCAGTATGGAATG  
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consensus AGCAGTGTGGAGCTCCAAATGCTATGTGGCTCTCTTCCCTTTTGGCCAGTATGGAATG

US -09-787- 2706 GTATACGATGAGCACTGCCCTCCGAAATTTGTTCAAGCTACTGTAACCTGTAGCATTTGC  
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US -09-787- 2928 GTATACGATGAGCACTGCCCTCCGAAATTTGTTCAAGCTACTGTAACCTGTAGCATTTGC  
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US -09-787- 2706 GTATACGATGAGCACTGCCCTCCGAAATTTGTTCAAGCTACTGTAACCTGTAGCATTTGC  
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consensus GTATACGATGAGCACTGCCCTCCGAAATTTGTTCAAGCTACTGTAACCTGTAGCATTTGC

US -09-787- 2767 TTGGAGCAACCAAGGCTGTGGCTGTGTACTGATCCAGCAATACTGGCAAGGGAATGCA  
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US -09-787- 2989 TTGGAGCAACCAAGGCTGTGGCTGTGTACTGATCCAGCAATACTGGCAAGGGAATGCA  
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US -09-787- 2989 TTGGAGCAACCAAGGCTGTGGCTGTGTACTGATCCAGCAATACTGGCAAGGGAATGCA  
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US -09-787- 2767 TTGGAGCAACCAAGGCTGTGGCTGTGTACTGATCCAGCAATACTGGCAAGGGAATGCA  
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consensus TTGGAGCAACCAAGGCTGTGGCTGTGTACTGATCCAGCAATACTGGCAAGGGAATGCA

US-09-787- 2828 TAGAGGTTCTTATTAAGGACAGTAGAATGCCCTTGCAGAGCCCTTACAGAAATTTCTA  
US-09-787- 3050 TAGAGGTTCTTATTAAGGACAGTAGAATGCCCTTGCAGAGCCCTTACAGAAATTTCTA  
US-09-787- 3050 TAGAGGTTCTTATTAAGGACAGTAGAATGCCCTTGCAGAGCCCTTACAGAAATTTCTA  
US-09-787- 2828 TAGAGGTTCTTATTAAGGACAGTAGAATGCCCTTGCAGAGCCCTTACAGAAATTTCTA  
consensus TAGAGGTTCTTATTAAGGACAGTAGAATGCCCTTGCAGAGCCCTTACAGAAATTTCTA  
US-09-787- 2889 TCCACAGCCCTGCTCAATTCAGCATGTGTCTAGAGGACAGCATATCAACTGGTCTTTC  
US-09-787- 3111 TCCACAGCCCTGCTCAATTCAGCATGTGTCTAGAGGACAGCATATCAACTGGTCTTTC  
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US-09-787- 2889 TCCACAGCCCTGCTCAATTCAGCATGTGTCTAGAGGACAGCATATCAACTGGTCTTTC  
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US-09-787- 2950 ATTCACTGTCCAGCTTGCCTCAATGCAACGGCCACAGTAAATGCAATCAGACATCTGTG  
US-09-787- 3172 ATTCACTGTCCAGCTTGCCTCAATGCAACGGCCACAGTAAATGCAATCAGACATCTGTG  
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US-09-787- 3011 AGAAGTGTGAGAACTTGACACAGGCAAGCACTGCGAGACCTGCATATCTGGCTTCTACGG  
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consensus AGAAGTGTGAGAACTTGACACAGGCAAGCACTGCGAGACCTGCATATCTGGCTTCTACGG  
US-09-787- 3072 TGATCCCAACCAATGAGGGAATGTCAACCATGCAATGAGGCGACGCGTCTGTGTG  
US-09-787- 3294 TGATCCCAACCAATGAGGGAATGTCAACCATGCAATGAGGCGACGCGTCTGTGTG  
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consensus TGATCCCAACCAATGAGGGAATGTCAACCATGCAATGAGGCGACGCGTCTGTGTG  
US-09-787- 3133 AACACCAACACGGGCAAGTGTCTGCAACCAAGGGCGTCAAGGGGAGAGAGTGCACG  
US-09-787- 3355 AACACCAACACGGGCAAGTGTCTGCAACCAAGGGCGTCAAGGGGAGAGAGTGCACG  
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US-09-787- 3133 AACACCAACACGGGCAAGTGTCTGCAACCAAGGGCGTCAAGGGGAGAGAGTGCACG  
consensus AACACCAACACGGGCAAGTGTCTGCAACCAAGGGCGTCAAGGGGAGAGAGTGCACG  
US-09-787- 3194 TATGTGAGGTAGAAATCGATACCAAGAAACCTCTCAGAGAAACAGTATTATTAATCTCT  
US-09-787- 3416 TATGTGAGGTAGAAATCGATACCAAGAAACCTCTCAGAGAAACAGTATTATTAATCTCT  
US-09-787- 3416 TATGTGAGGTAGAAATCGATACCAAGAAACCTCTCAGAGAAACAGTATTATTAATCTCT  
US-09-787- 3194 TATGTGAGGTAGAAATCGATACCAAGAAACCTCTCAGAGAAACAGTATTATTAATCTCT

consensus TATGTGAGGTAGAAATCGATACCAAGAAACCTCTCAGAGAAACAGTATTATTAATCTCT  
US-09-787- 3255 TCTTATGACTATACAGTTCACTTTAGTCTATCCAGAAAGATGATGCTATTAACAGCT  
US-09-787- 3477 TCTTATGACTATACAGTTCACTTTAGTCTATCCAGAAAGATGATGCTATTAACAGCT  
US-09-787- 3477 TCTTATGACTATACAGTTCACTTTAGTCTATCCAGAAAGATGATGCTATTAACAGCT  
US-09-787- 3255 TCTTATGACTATACAGTTCACTTTAGTCTATCCAGAAAGATGATGCTATTAACAGCT  
consensus TCTTATGACTATACAGTTCACTTTAGTCTATCCAGAAAGATGATGCTATTAACAGCT  
US-09-787- 3316 ATCAATTTTGTGCTACTCTGACGAACAAACAGGGATTTGACATGTTCAATGCTCT  
US-09-787- 3538 ATCAATTTTGTGCTACTCTGACGAACAAACAGGGATTTGACATGTTCAATGCTCT  
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US-09-787- 3316 ATCAATTTTGTGCTACTCTGACGAACAAACAGGGATTTGACATGTTCAATGCTCT  
consensus ATCAATTTTGTGCTACTCTGACGAACAAACAGGGATTTGACATGTTCAATGCTCT  
US-09-787- 3377 CCAAGAAATTTCAACCTCAACATCACTGGGCTGCCAATTCTCAGCTGGAACCCAGGCTGG  
US-09-787- 3599 CCAAGAAATTTCAACCTCAACATCACTGGGCTGCCAATTCTCAGCTGGAACCCAGGCTGG  
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US-09-787- 3438 AGAAGAGATGCTGTGTTTCAAAAACCAACATTAAAGAGTACAAAGATAGTTCTCTAAT  
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US-09-787- 3721 GAGAAGTTGATTTTGCACAACCAACCAATATCACTTTCTTTATATGCTAGTAATTCA  
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consensus GAGAAGTTGATTTTGCACAACCAACCAATATCACTTTCTTTATATGCTAGTAATTCA  
US-09-787- 3560 CCTGGGCCATCAAAATTCAGATTTGCTTCTCAGACAGCAATTTATGACCTGGTACCA  
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consensus CCTGGGCCATCAAAATTCAGATTTGCTTCTCAGACAGCAATTTATGACCTGGTACCA  
US-09-787- 3621 GTTCTTCGAGACTTTCTTCAGTGTGTTCTCTCTTGTGCTCTGAGTGGCTGCTGTGGTGG  
US-09-787- 3843 GTTCTTCGAGACTTTCTTCAGTGTGTTCTCTCTTGTGCTCTGAGTGGCTGCTGTGGTGG

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US-09-787- 3802
US-09-787- 3580
consensus      gtctctcgtaacttcttcagttgttctcctcttctgtgctggtgctgtgttctg
US-09-787- 3682  AAGAACAACAAGTTGTTGGGCTCCAGAGTAGAGCAACTTCTTGAGAGATGCAAC
US-09-787- 3904  AAGATCAACAAGTTGTTGGGCTCCAGAGTAGAGCAACTTCTTGAGAGATGCAAC
US-09-787- 3802
US-09-787- 3580
consensus      aagatcaacaagaagttgttggtgtccagagctagagagcaacttctcgagagatgcaac
US-09-787- 3743  AGATGGCCAGCCGTCCTCTTGCTCTGTAAATGTGCTTGGAACAGATGAGAGCTCC
US-09-787- 3965  AATGGCCAGCCGTCCTCTTGCTCTGTAAATGTGCTTGGAACAGATGAGAGCTCC
US-09-787- 3802
US-09-787- 3580
consensus      agatggccagccgtctcctcttgctctctgtaatgtcgcttggaacagatgagagcctcc
US-09-787- 3804  TGATCTTATTGGGGGAGATATAAGACTGTTCCCAACCCATTGCACTGGAGCCGTTT
US-09-787- 4026  TGATCTTATTGGGGGAGATATAAGACTGTTCCCAACCCATTGCACTGGAGCCGTTT
US-09-787- 3802
US-09-787- 3580
consensus      tgatcttattgggggagatataagaactgt--CAAAccatgtcacgtgagccgtgttct
US-09-787- 3865  GGCAACAAGCCGCTGCTCTGTGTTTGTAGAGCTCCCTGAGGCTGGGTGATCC
US-09-787- 4087  GGCAACAAGCCGCTGCTCTGTGTTTGTAGAGCTCCCTGAGGCTGGGTGATCC
US-09-787- 3810  TGAACATGA
US-09-787- 3588  TGAACATGA
consensus      g--AACAA-G-cgctgtcctctctgtgtgtgaggtccctcgaggtcctgggtggcatcc
US-09-787- 3926  CTCCTCTGAGCAGTCAGTCTTGTGCTGTGCGCAGCGCCTGTGACATTTCTCAGCAAT
US-09-787- 4148  CTCCTCTGAGCAGTCAGTCTTGTGCTGTGCGCAGCGCCTGTGACATTTCTCAGCAAT
US-09-787- 3820
US-09-787- 3598
consensus      ctctctctgggcagtcaggtcttgcctgtggtccagcgccctgtgtgacatttctcagcagat
US-09-787- 3987  GCCGATAGTGTACAGAAGAACTCAGAGAGCCGTGAGAAACCGAAGCAGCAGCCCTTGCA
US-09-787- 4209  GCCGATAGTGTACAGAAGAACTCAGAGAGCCGTGAGAAACCGAAGCAGCAGCCCTTGCA
US-09-787- 3820
US-09-787- 3598
consensus      gccgatagtgtaacaaggagaagtcaggagccgtgagaaacccggaagcagagcccttgca

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US-09-787- 4048	CAGCTTGGAGACTGCACTTGA
US-09-787- 4270	CAGCTTGGAGACTGCACTTGA
US-09-787- 3820	
US-09-787- 3598	
consensus	cagcctggagacctgcatctga
Alignment score = 4522.00	
Scoring matrix:	
	1 8 9 10
1	1223 109 2472
8	2954 120
9	1456
10	